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Service 26.

STANDARDS FOR Computer and Office Equipment.

AS No.

PROGRAMMING LANGUAGES

1209—1978 Programming language COBOL **$43.00**

Provides specifications for both the form and interpretation of programs expressed in COBOL, to facilitate interchangeability of programs for use with a variety of automatic data processing systems. It is technically identical with ISO 1989—1978 and ANSI X3.23—1974.

1486—1983 Programming language FORTRAN **$50.00**

Specifies the form and establishes the interpretation of computer programs expressed in the FORTRAN language. It consists of a full language and a subset language. Its purpose is to promote portability of FORTRAN programs for use on a variety of data processing systems. It is identical in content and format with ISO 1539—1979 which in turn is an endorsement of ANSI X3.9—1978.

2580—1983 Programming language PASCAL **$27.40**

Specifies the semantics and syntax of the computer programming language PASCAL by defining requirements for a processor and for a conforming program. Two levels of compliance are defined for both processors and programs.

CHARACTER CODES

1070—1971 The definition of 4-bit character sets derived from the Australian standard 7-bit coded character set **$5.00**
Corrig.

Specifies the methods to be adopted for defining a set of rules for the derivation of 4-bit character sets from the Australian standard 7-bit code defined in AS 1776, in applications when the use of the full 7-bit code cannot be economically justified.

1776—1980 Information processing—7-bit coded character set for information interchange **$12.20**

Describes a coded character set intended to facilitate the interchange of information between data processing systems or within message transmission systems. The set is applicable to all latin alphabets and provides 7-bit coded representation for 128 control or graphic characters. Facilities for extension exist where 128 characters are insufficient for a particular purpose. The set is completely compatible with that of ISO 646.

1953—1977 Code extension techniques for use with the standard 7-bit coded character set **$12.20**

Describes methods of extending the Australian standard 7-bit code in both 7-bit and 8-bit environments. The relationship between 7-bit and 8-bit codes is described in detail. The standard is technically identical with ISO 2022.

2295—1979 Information processing—Graphical representations for the control characters of the 7-bit coded character set **$7.20**

Specifies graphical representations for the control characters of columns 0 and 1 of the 7-bit coded character set, as well as for the normally non-printing characters 'SPACE' and 'DELETE'. Technically identical with ISO 2047.

2356 **Information processing—Implementation of the 7-bit coded character set and its extensions**

Part 1—1980 **Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 9-track 12.7 mm (0.5 in) magnetic tape**

Part 2—1980 **Representation of the 7-bit coded character set on punched tape**

Part 3—1980 **Representation of the 7-bit coded character set on 12-row punched cards**

Part 4—1980 **Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 3.81 mm magnetic tape cassette for data interchange** (bound together) **$9.80**

Specifies requirements identical with those in ISO standards ISO 962, 1113, 1679 and 3275.

CHARACTER RECOGNITION

1436—1983 **Alphanumeric character set OCR-B for optical recognition** **$23.00**

Specifies the printed image shapes and sizes of the alphanumeric character set OCR-B for use in optical recognition systems. Technically identical with ISO 1073/II.

2570—1982 **Printing specifications for optical character recognition** **$18.00**

Establishes the basis for industry standards for paper and printing to be used in Optical Character Recognition (OCR) systems. Provides for the identification and measurement of, and establishes specifications for, the relevant parameters and gives guidance for their use. Technically identical with ISO 1831.

NUMERICAL CONTROL OF MACHINES

1114—1971 **Coded character set for the numerical control of machines** **$5.00**

Specifies a code which is a subset of the 7-bit coded character set specified in AS 1776 and fully compatible with the ISO 7-bit code.

1115—1971 **Axis and motion conventions for numerically controlled machines** **$9.80**

Establishes a convention for machine movements within a standard coordinate system, in which the tool or workpiece of the machine will move relative to the fixed coordinates so that a programmer will not need to consider whether the tool approaches the workpiece or the workpiece approaches the tool. The system applies to all numerically controlled machines. 25 illustrations of the application of the system are included.

KEYBOARDS

1412 **Adding and calculating machines**

Part 1—1976 **Basic informative symbols** **$5.00**

Specifies the basic symbols used to identify the keys and functions. It provides for keytop symbols and for printed or displayed symbols. Wherever possible the symbols are those already associated with the mathematical function. The standard is technically compatible with ISO/R 1093.

1659—1974 **The alphanumeric section of keyboards operated with both hands**
Amdt 1, December 1976 **$5.00**

Specifies the arrangement of the basic core of the alphanumeric section of keyboards operated with both hands, with the intention of facilitating harmonization of keyboard layouts. The standard is technically identical with ISO/R 2126.

AS No

1922—1976 Implementation of the Australian standard 7-bit coded character set, alphanumeric keyboard—QWERTY type **$5.00**

Defines the method of implementing the standard 7-bit coded character set according to AS 1776, in terms of a keyboard of 47 or 48 keys. Rules are given for deriving layouts for keyboards with 44-46 keys in order to implement restricted character sets. The standard is compatible with ISO 2530—1975.

2250—1979 Office machines and data processing equipment—Keyboard layouts for numeric applications **$7.20**

Specifies the layout of numerals on keyboards for data processing equipment and all office machines, including calculators. This standard is technically identical with ISO 3791.

2298—1979 Typewriters—Layout of printing and function keys **$5.00**

Specifies the arrangement, number, spacing and location of the printing keys and some of the function keys. Technically identical with ISO 1091.

2386—1980 Office machines and data processing equipment—Principles governing the positioning of control keys on keyboards **$7.20**

Gives guidance on the positioning of control keys on keyboards. Applies to numeric only keyboards, alphanumeric keyboards, and composite keyboards. Criteria are given for the assignment of control functions to keys outside the numeric/alphanumeric areas. Identical with ISO 3244.

2607—1983 Office machines and data processing equipment—Function key symbols on typewriters **$5.00**

Specifies the symbols to be used to identify the function key symbols of typewriters where symbols rather than words are used for this purpose. Technically identical with ISO 1090.

2608—1983 Adding machines and calculating machines—Numeric section of ten-key keyboards **$5.00**

Specifies the composition and layout of ten-key keyboards for adding and calculating machines, as well as the shape of keys, the slope of the keyboard plane, the maximum key stroke and the spacing of keys. Technically identical with ISO 1092.

DATA COMMUNICATION

1484 Digital data transmission

Part 1—1973 **Basic mode control procedures for data communication systems**

Part 2—1973 **Character structure for start/stop and synchronous transmission**

Part 3—1973 **The use of longitudinal parity to detect errors in information messages**

Part 4—1973 **Connector pin numbers for information interchange circuits** (bound together) **$12.20**

Part 1 describes the implementation of the Australian standard 7-bit code (see AS 1776) on data transmission channels. The format of the transmitted messages and the supervisory sequences which are part of the transmission control procedures, are also defined. Part 2 defines the character structure to be used for serial-by-bit start/stop and synchronous data transmission systems using the 7-bit coded character set. Part 3 defines a method of error detection capable of satisfying a wide range of applications; it offers no solution to the problem of correcting errors when detected. Part 4 specifies the connector pin numbers at the interface between data terminal equipment and data communication equipment; Section 1 covers equipment capable of handling signal rates up to 20 000 bits per second, while Section 2 covers equipment handling signal rates in excess of this figure. All four Parts are technically identical with relevant ISO and CCITT recommendations.

Part 5—1976 Extensions to basic mode control procedures $7.20

Supplements the basic mode control procedures given in Part 1 to cover code independent transfer and conversational message transfer of information. It extends the basic mode procedures to define recovery, abort and interrupt procedures, and multiple station selection. It is technically identical with ISO 2111, ISO 2628 and ISO 2629.

2571—1982 Data communication—High level data link control procedures—Elements of procedures $18.00

Describes elements of data link control procedures for synchronous bit sequence independent control data transmission using the high level data link control (HDLC) frame structure and independent frame numbering in both directions. These HDLC elements of procedures are described in terms of the actions that occur on receipt of commands at a secondary. Technically identical with ISO 4335.

2572—1982 Data communication—High level data control link procedures—Frame structure $7.20

Defines in detail the frame structure for data communication systems using bi-oriented high level data link control (HDLC) procedures. Technically identical with ISO 3309.

2599—1983 Data communication—HDLC unbalanced classes of procedure $7.20

Describes the high-level data link control (HDLC) unbalanced classes of procedures for synchronous data transmission. Technically identical with ISO 6159.

2600—1983 Data communication—HDLC balanced class of procedures $7.20

Describes HDLC balanced class of procedures for synchronous data transmission. Technically identical with ISO 6256.

REPRESENTATION OF DATA

1340—1975 Symbols for SI units for systems with limited character sets $5.00

Specifies two sets of symbols for units intended to replace internationally recognized units for use in the interchange of data between equipments capable of accepting, using, reading or displaying limited graphic character sets, in a closed environment. The standard is technically identical with ISO 2955.

2296—1979 Information interchange—Representations of time of the day $5.00

Provides a uniform method for representing local time of day and Universal Time in digital form for information interchange purposes. Technically identical with ISO 3307.

2297—1979 Information processing interchange—Representation of ordinal dates $5.00

Specifies a method for representing ordinal dates for use in data processing systems. Prescribes the composition, sequence and representation of time elements. Includes month-day to day-of-year conversion table. Technically identical with ISO 2711.

2413—1980 Information interchange—Representation of local time differentials $5.00

Specifies a method for representing local time differentials to facilitate data interchange. Technically identical with ISO 4031.

2619—1983 Documentation—Format for bibliographic information interchange on magnetic tape $7.20

Specifies requirements for a generalized exchange format which will hold records describing all forms of material capable of bibliographic description as well as related records such as authority records. Technically identical with ISO 2709.

AS No

2632—1983 Codes for the representation of names of countries $14.40

Provides 2-letter, 3-letter and 3-digit codes for names of countries, dependencies and other areas of special interest for purpose of international communication and information exchange. Technically identical with ISO 3166.

VOCABULARY

1189 Data processing—Vocabulary $123.36 \\

Presents data processing concepts and associated terms which should be used in communicating with specialists in this field. Deals with the main areas of data processing, including the principal processes and types of equipment used, the representation, organization and presentation of data, the programming and operation of computers, input-output devices, and peripheral equipment, as well as particular applications. The terms and definitions are identical with those given in corresponding sections of the ISO vocabulary, ISO 2382.

DOCUMENTATION

2645—1983 Information processing—Flowchart symbols and conventions $7.20

Specifies graphical symbols for use in flowcharts for information processing systems and gives conventions for incorporating these symbols in flowcharts. Technically identical with ISO 1028 and ISO 2636.

LABELLING AND FILE STRUCTURE

1068—1980 Information processing—Magnetic tape labelling and file structure for information interchange $14.40

Specifies an operating system for labelling magnetic tapes to provide protection against errors in handling data from magnetic tape. Includes the concept of levels of labelling. Identical with ISO 1001.

2414—1980 Information processing—Magnetic tape cassette and cartridge labelling and file structure for information interchange $9.80

Specifies a 3-level labelling system for labelling magnetic tape cassettes and cartridges. The three levels, which are of increasing complexity, allow for a wide range of equipment to be accommodated. Technically identical with ISO 4341.

PAPER TAPE

1069—1971 Dimensions for punched paper tape for data interchange $5.00

Specifies dimensions for both the paper tape itself and for the size and position of perforations in the tape. Locations for the tracks and rows of holes are also prescribed. The purpose of the standard is to facilitate the interchange of data on punched paper tapes.

1305 Punched tape for data interchange

Part 1—1974 General requirements $5.00

Specifies characteristics and conventions for rolled paper tape, to facilitate its exchange for information processing. The standard is technically identical with ISO 2195—1972.

1341—1982 Information processing—Unpunched paper tape $9.80

Specifies dimensions and properties of unpunched paper tape used for data interchange. Technically identical with ISO 1729. Methods of test are either given in appendices or prescribed by reference to AS 1301.

2151—1978 Dimensions of reels and cores for 25.4 mm perforated paper tape for information interchange $5.00

Lays down the dimensions of take-up (or storage) reels with separable flanges, and of cores. A compatible reel and core are described. The standard is technically identical with ISO 3692.

AS No

PUNCHED CARDS

1244—1972 Unpunched paper cards for information interchange $7.20

Standard dimensions, materials and characteristics are specified for general purpose paper cards for use with card punching equipment of all kinds. Methods of test are specified to establish the characteristics defined. An appendix deals in some detail with storage and use of cards.

1245—1972 Dimensions and location of rectangular punched holes in 80 columns punched paper cards $5.00

Specifies dimensions, location and tolerances for holes for cards specified in AS 1244. Storage and use are dealt with in an appendix.

MAGNETIC TAPE

1009—1983 Information processing—9-track, 12.7 mm wide magnetic tape for information interchange recorded at 32 rpmm $7.20

Specifies a 9-track, 32 rows per millimetre 12.7 mm wide magnetic tape for interchangeability of tape between information processing systems which utilize the 7-bit coded character set specified in AS 1776, or its 7-bit and 8-bit extensions specified in AS 1953. Technically identical with ISO 1863.

1011—1972 Unrecorded magnetic tape for information interchange—8 and 32 RPmm NRZI and 63 RPmm phase encoded $5.00
Amdt 1, November 1976

Specifies characteristics for unrecorded magnetic tape to facilitate magnetic and mechanical interchangeability of 12.7 mm tape between information processing systems especially when utilizing a standard 7-bit code such as that defined in AS 1776.

1072 Unrecorded magnetic tapes for instrumentation applications

Part 1—1973 General and dimensional requirements $5.00

Specifies the composition, method of winding, and dimensions (metric and imperial) of magnetic tape used in interchange instrumentation applications.

Part 2—1974 Physical properties and test methods $5.00

Specifies physical characteristics and related test methods. Tests are given for elasticity, combustibility, resistivity, curvature and elongation. The standard is technically identical with ISO 2690.

1073 Dimensions of hubs and reels for magnetic tape for instrumentation interchange

Part 1—1979 General purpose hubs and reels, with 76 mm (3 in) centre hole

Part 2—1979 Precision reels

Part 3—1979 General purpose reels with 8 mm (5/16 in) centre hole
(bound together) **9.80**

Covers general purpose hubs and reels with 76 mm centre hole, precision reels, and general purpose reels with 8 mm centre hole. It is technically identical with and has been reproduced from ISO 1858, ISO 1860 and ISO 3802.

2169—1978 Recorded magnetic tapes for instrumentation applications—Standard tape speeds and track configurations $7.20

Specifies standard tape speeds and track configurations for 6.25 mm, 12.7 mm and 25.4 mm wide magnetic tape as used in instrumentation applications. Requirements are included for record and reproduce heads. The standard is technically identical with ISO 3413.

2170—1978 Analogue modes of recording on magnetic tape for instrumentation applications $7.20

Covers direct, single-carrier FM and multiple-carrier FM modes of recording. Set-up procedures for record and reproduce functions are given. The standard is technically identical with ISO 3615.

AS No

2241—1979 9-track, 12.7 mm (½ in) wide magnetic tape for information interchange recorded at 63 rpmm (1600 rpi), phase encoded $9.80

Specifies a format and recording standard intended to facilitate magnetic and mechanical interchangeability of tape between systems utilizing the 7-bit code. This standard is technically identical with ISO 3788.

2412—1980 Information interchange on 3.81 mm (0.150 in) magnetic tape cassette at 4 cpmm (100 cpi), phase encoded at 63 ftpmm (1600 ftpi) $14.40

Specifies essential characteristics of 3.81 mm magnetic tape cassettes using the 7-bit coded character set. The recording system specified uses the 31.5 bits per millimetre phase encoded recording method. Technically identical with ISO 3407.

2631—1983 Information processing—Self-loading cartridges for 12.7 mm wide magnetic tape $9.80

Specifies mechanical and functional interchangeability requirements for self-loading cartridges, to be used with reels of 12.7 mm wide magnetic tape specified in AS 1011. Technically identical with ISO 6098.

CREDIT CARDS

2623 Credit cards

Part 1—1983 Specifications, numbering system and registration procedure $18.00

Defines the physical specifications of the card, type fonts, location and dimensions of the embossed data and an account of numbering system, and specifies the procedure for registering card issuer identifiers. Technically identical with ISO 2894.

Part 2—1983 Magnetic stripe encoding for tracks 1, 2 and 3 $9.80

Specifies the physical and magnetic characteristics for a magnetic stripe, the encoding technique, the coded character set and encoding formats. Technically identical with ISO 3554.

Part 3—1983 Magnetic stripe data content for track 3 $7.20

Establishes specifications for cards issued by or acceptable to the banking industry and is intended to permit interchange based on the use of magnetic stripe encoded information. Technically identical with ISO 4909.

ORDER FORM SERVICE 26

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